



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 14, 1996

TO: Minerals File

FROM: Lynn Kunzler, Reclamation Specialist 

RE: Site Inspection, San Rafael Energy, Inc., Snow Mine, M/015/013, Probe Mine, M/015/011, and Four Corners Mine Mine, M/015/010, Emery County, Utah

Date of Inspection: July 19, 1996

Time of Inspection: 9:30am

Conditions: Clear and warm

Participants: Verl Shumway and Lynn Kunzler, DOGM

Purpose of Inspection: Evaluate reclamation activities

On May 30, 1996 I met with Verl Shumway and Neil Simmons of the BLM to discuss on site reclamation activities and what would be required by the two agencies to reclaim the three referenced mine sites.

At the Snow and Probe sites, the headframes need to be removed as well as the buildings. Mr. Shumway was given permission to use the debris to backfill the shafts to the extent possible. Cement caps were to be installed over each shaft. Permission was also granted to bury the one cement pad at the Snow site provided it was covered with a minimum of 4 feet of material. All road spurs at these two sites will need to be reclaimed by ripping and leaving in a rough condition to discourage vehicle use.

At the Four Corners site, the tunnel will need to be backfilled to the extent possible. The area will need to be regraded and debris removed. Seeding at all three sites will need to be done in late October.

On July 19, 1996, a return visit to these sites showed that structures had been removed, debris had been buried or hauled away, regrading had been completed, and roads (except the county roads) had been ripped. Work completed to date was satisfactory, and later phone contact with the BLM indicated that they were satisfied with the work as well. Mr. Shumway requested a seed mix for seeding this fall and indicated that seeding would be done by drilling. This should preclude the need to rip or disk the area before seeding to break the surface crust (it is expected that the seed drill will accomplish this task).

While at these sites, a vegetation survey was performed. At the Snow and Four Corners Mines, surrounding vegetation ground cover was determined to be 15% and at the Probe Mine, it was determined to be 12%. Vegetation was quite similar at all three sites. Dominant plant species were mat saltbush, fourwing saltbush, galleta, squirreltail, indian ricegrass, globemallow, ephedra and wild buckwheat.

cc: Neil Simmons, BLM
M015013.ins



Recommended Revegetation Species List
for

San Rafael Energy, Inc.
Snow, Probe, and Four Corners Mines
M/015/013, M/015/11& M/015/010

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
'Hycrest' crested wheatgrass	<u><i>Agropyron cristatum 'hycrest'</i></u>	1.0
Intermediate wheatgrass	<u><i>Agropyron intermedium</i></u>	2.0
Indian ricegrass	<u><i>Oryzopsis hymenoides</i></u>	2.5
Yellow sweetclover	<u><i>Melilotus officinalis</i></u>	0.5
Scarlet globemallow	<u><i>Sphaeralcea coccinea</i></u>	0.5
4-wing saltbush	<u><i>Atriplex canescens</i></u>	1.0
Shadscale	<u><i>Atriplex confertifolia</i></u>	1.0
Forage kochia	<u><i>Kochia prostrata</i></u>	0.5
Total Seed		<u>9.0 lbs/ac</u>

* This seed recommendation was discussed with Mr. Neil Simmons of the BLM. The BLM will accept these recommendations.

Prepared by DOGM August 14, 1996

M015/013.sdm

FOUR CORNERS MINE AREAS

4/15/014

DINO PORTALS

AIR SHAF7

JESSIE'S TWIST
QUAD MAP
200% ENLARGE
SEC 22 T21S, R14E

SNOW MINE
MINE DUMP

BUCKMA
4585

4315

4314

4313

4532AT

4473T

4462T

4593T

4358T

ADITS

PROSPECTS

ADIT
#22 PORTAL
MINE SHAFTS

ADITS

SHAFTS PROSPECT

ADITS
4402T

Mine Shaft #6
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PROSPECTS

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AIR SHAF7

MINE SHAFT

MINE SHAFT

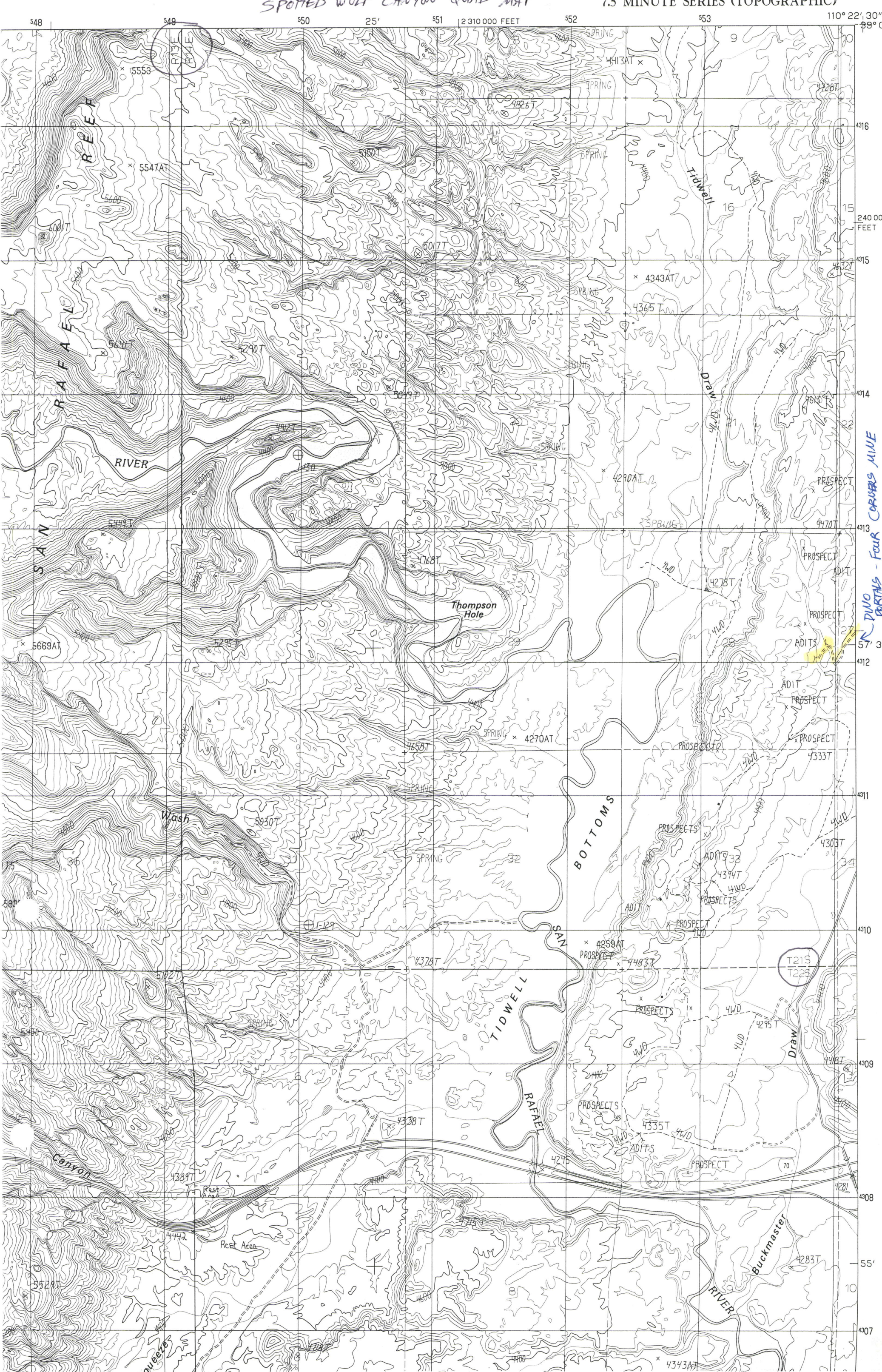
4WD

4WD

30"

SPOTTED WOLF CANYON QUAD MAP

7.5 MINUTE SERIES (TOPOGRAPHIC)

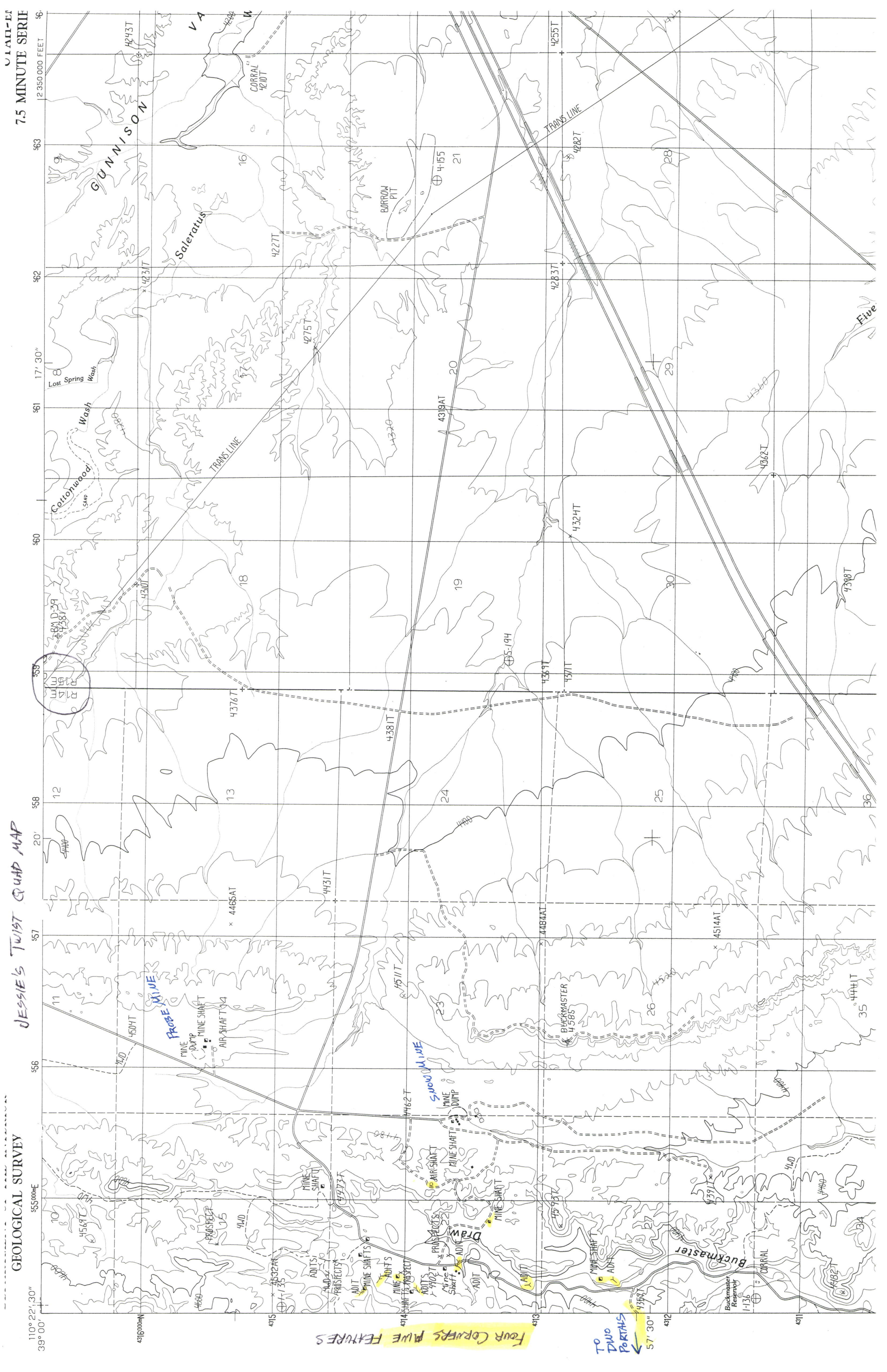


DINO PORTALS - FOUR CORNERS MINE

57' 30"

Four CORNERS MIXE
11/015/014

SPOTTED WOLF QUAH



GEOLOGICAL SURVEY

Jessie's Twist Quad Map

7.5 MINUTE SERIE

FOUR CORPUS MINE FEATURES

TO DINO PORTALS

PROBE MINE

SNOW MINE

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39° 00'

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Four Corners Mine
4/015/014

JEALIE'S TWIST
QUAD